What Is Claimed Is:

- 1. A method for the production of an improved raffinate-resistant, amino acid producing bacterial strain B comprising:
 - (a) subjecting a parental bacterial strain A to mutagenesis;
- (b) contacting said mutagenized parental strain A with a medium containing at least about 1% raffinate based on ammonia sulfate content;
 - (c) selecting a raffinate-resistant bacterial strain B; and
- (d) determining amino acid production of said raffinate-resistant bacterial strain B.
- 2. The method of Claim 1, wherein said parental bacterial strain is subjected to random chemical mutagenesis.
- 3. The method of Claim 1, wherein said parental bacterial strain is selected from a group consisting of:
 - (a) Gorynebacterium sp.;
 - (b) Brevibacterium sp.;
 - (c) / Escherichia coli; and
 - (d) | Bacillus sp.
- 4. The method of Claim 1, wherein said bacterial strain B produces an amino acid selected from the group consisting of:
 - (a) glycine;
 - (b) alanine;
 - (c) methionine;
 - (d) phenylalanine;
 - (e) tryptophan;
 - (f) proline;
 - (g) serine;

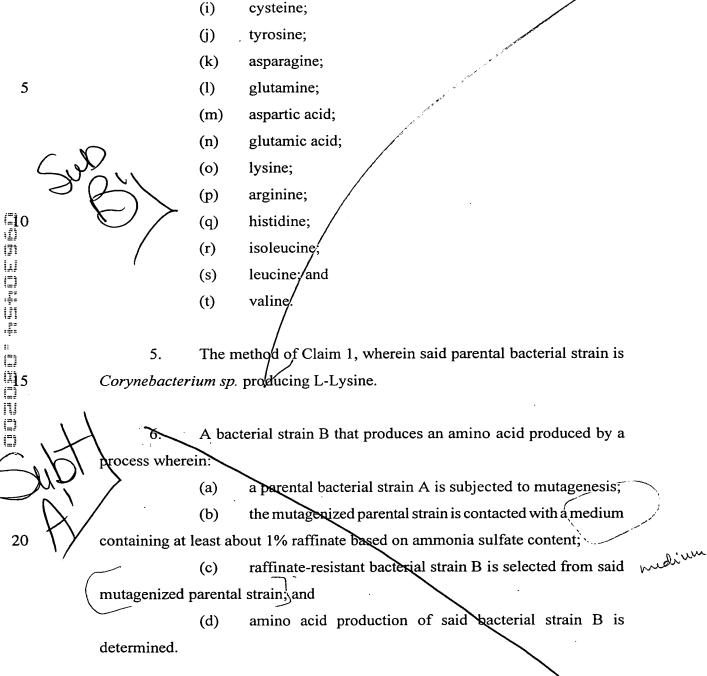
5

20

25

(h)

threonine;



The bacterial strain of Claim 6, wherein the parental bacterial strain

A is selected from a group consisting of the following: (a) Corynebacterium sp.; Brevibacterium sp.; (b) 5 Escherichia coli; and (c) (d) Bacillus sp. The bacterial strain of Claim 7, wherein said bacterial strain B 8. produces an amino acid selected from the group consisting of: (a) glycine; (b) alanine; methionine; (c) phenylalanine; (d) tryptophan; (e) proline; (f) serine; (g) threomine; (h) cysteine; (i) tyrosine; (j) (k) asparagine; **(l)** 20 glutamine; aspartic acid; (m) (n) glutamic acid; (ģ) lysine; arginine; (p) histidine; 25 (q) (r) isoleucine; leucine; and (s) valine. (t)

Corynebacterium sp. strain producing at least about 10 g/l Llysine in 24 hours when grown in a medium containing at least about 1% raffinate. A Brevibacterium strain producing at least about 10 g/l L-lysine 10. in 24 hours when grown in a medium containing at least about 1% raffinate. An L-lysine producing bacterial strain, wherein said strain is selected from the group consisting of: (a) NRRL B-30059; NRRL B-30060; (b) (c) NRRL B-30061; NRRL B30062; (d) NRRL B-30063; and (e) mutants of (a), (b), (c), (d) or (e) (f) The strain of claim 11, wherein said strain is NRRL B-30059. 12. 13. The strain of claim 11, wherein said strain is NRRL B-30060. 14. The strain of claim 11, wherein said strain is NRRL B-30061. 15. The strain of claim/11, wherein said strain is NRRL B-30062.

The strain of claim 11, wherein said strain is NRRL B-30063.

16.

Sold of the state of the state

5

- 17. A process for the production of an amino acid comprising:
- (a) culturing a bacterium B in a medium containing raffinate, whereby said strain is obtained by the following method:
- (i) selecting a parental bacterial strain A that produces an amino acid;
 - (ii) subjecting said parental strain to mutagenesis;
- (iii) selecting from said mutagenized parental strain, an improved raffinate-resistant bacterial strain B; and
 - (b) recovering the amino acid from the culture media.
- 18. The process of claim 17, wherein the media concentration of raffinate is at least about 1% based on ammonia sulfate content.
- 19. The process of claim 17, wherein the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 20. The process of claim 17, wherein the medium concentration of raffinate is at least about 1% based on ammonia sulfate content and the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 21. The process of claim 17, wherein the raffinate concentration is about 5% based on ammonia sulfate content and the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 22. The process of claim 17, wherein bacterium B is selected from the group consisting of:
 - (a) Corynebacterium sp.;
 - (b) Brevibacterium sp.;
 - (c) Escherichia coli; and
 - (d) Bacillus sp.

20

25

5

- 23. The process of claim 22, wherein the bacterium B is Corynebacterium sp. selected from the group consisting of:
 - (a) NRRL B-30059;
 - (b) NRRL B-30060;
 - (c) NRRL B-30061;
 - (d) NRRL B-30062; and
 - (e) NRRL B₇30063; and
 - (f) mutants of (a), (b), (c), (d) or (e).